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OUT60995

P 24[redacted]
FM NPIC

1967 JAN 24 01 24Z

25X1
25X1

24 JAN 1967

AFSSO PACAF
AFSSO ACIC
AFSSO FTD
AFSSO USAFE
CNO
OPCEN

25X1
25X1

ZEM
T O P S E C R E T. [redacted] CITE NPIC 9659.

SUBJECT: CAMERA INFORMATION FOR MISSION 1038-1.

1. THE MISSION UTILIZED TWO PAN CAMERAS, FOUR HORIZON CAMERAS, A STELLAR CAMERA, AND AN INDEX CAMERA.

2. CAMERA DATA

A. MAIN UNITS	FORWARD	AFT	STAR HOR	PORT HOR
FOCAL LENGTHS (MM)	609.602	609.602	FWD 54.930	FWD 55.000
			AFT 55.000	AFT 55.000
FILTER (WRATTEN NO.)	23A	21	25	25
APERTURE	F3.5	F3.5	F8.0	F6.3
SLIT WIDTH (IN)	.225	.175	1/100	1/100
EXPOSURE (SEC)				
FILM	3404	3404	3404	3404
RESOLUTION (L/MM)	181	201	N/A	N/A

B. S/I UNITS	STELLAR	INDEX
FOCAL LENGTH(MM) PART 1	84.0683	38.3415

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TOP SECRET

Excluded from automatic downgrading and declassification

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	PART 2	84.0053	38.3600
FILTER (WRATTEN NO.)		NONE	21
APERTURE		F1.8	F4.5
EXPOSURE (SEC)		2.0	1/500
FILM		3401	3400
RESOLUTION (L/MM)	PART 1		72
	PART 2		70
UNIT NUMBER	PART 1	D93/86/112	
	PART 2	D90/111/108	

3. LENS DISTORTION (PIN CUSHION) MM

A.	MAIN UNITS	3	2	1	0	359	358	357
	FWD UNIT	.002	.001	.0	.0	.0	.001	.001
	AFT UNIT	.002	.0	.0	.0	.0	.001	002

B.	HORIZON CAMERAS (MM)	FWD		AFT	
		PORT	STAR	PORT	STAR
	(RADIAL) 10 DEGREES	.020	.010	.020	.010
	20 DEGREES	.070	.040	.050	.050
	(TANGENTIAL) MAX VECTOR	.030	.025	.030	.060

4. CAMERA ANGLES

			DEG.	MIN.
A.	ANGLE BETWEEN PAN CAMERAS		29	41.34
B.	DEPRESSION ANGLE BETWEEN HORIZON	FWD STAR	14	1.4
	HORIZON AND PAN CAMERAS	FWD PORT	15	15.1
		AFT STAR	15	15.3

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	AFT PORT	15	3.9
C. ANGLE BETWEEN STELLAR AND	PART 1	89	53.9
INDEX CAMERAS	PART 2	90	04.3

5. TIMING MARKS

FREQUENCY MARKS WILL APPEAR ON THE FILM AT A RATE OF 200 CYCLES PER SECOND.

6. IMAGE MOTION COMPENSATION DATA (CYCLE RATE (CPS), GROUND ANGULAR VELOCITY (GAV), AND PASSES WHERE USED).

REF. LEVEL		AMPL. LEVEL		PASSES
NO. CPS.	GAV.	NO. CPS.	GAV.	
6 .3594	.0325	5 .0965	.0087	1D THRU 4D
7. .3423	.0311	3 .1308	.0118	5D THRU 71D

7. PROGRAM TIME DATA

PASS	CAMERA ON TIME (ZULU TIME) DAY	HR	MIN	SEC	PROGRAM ON TIME UP RAMP SEC	PROGRAM DURATION SEC
1D	14	22	56	15	1824	45
4D1	15	03	25	35	1231	86
4D2	15	03	27	34	1351	35
5D1	15	05	00	18	1467	91
5D2	15	05	14	50	2338	225
6D1	15	06	31	00	1499	39
6D2	15	06	32	21	1580	71
6D3	15	06	34	41	1720	123

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7D1	15	07	58	59	1371	45
7D2	15	08	02	41	1593	177
8D	15	09	26	16	1202	188
9A	15	10	37	13	53	47
9D1	15	10	56	42	1222	49
9D2	15	11	02	59	1598	105
9D3	15	11	10	18	2038	75
10D	15	12	34	53	1707	36
11D	15	14	09	02	1951	70
14D	15	18	42	29	2141	126
16D	15	21	34	45	1667	37
21D	16	05	00	35	1392	249
22D1	16	06	33	18	1551	40
22D2	16	06	35	52	1705	269
23D1	16	07	59	13	1301	64
23D2	16	08	02	24	1491	252
24D	16	09	27	50	1214	145
25D1	16	10	59	24	1303	93
25D2	16	11	13	16	2136	106
26D1	16	12	36	54	1749	76
26D2	16	12	40	40	1976	46
27D	16	14	08	57	1869	112
30D	16	18	42	09	2049	122
32D	16	21	36	37	1713	37

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36D1	17	03	32	08	1434	23
36D2	17	03	50	02	2508	106
37D1	17	05	04	49	1592	115
37D2	17	05	07	43	1767	36
38D	17	06	34	23	1564	435
39D1	17	07	59	51	1290	118
39D2	17	08	03	47	1526	44
39D3	17	08	09	40	1879	83
41D	17	11	02	45	1456	85
42D	17	12	40	35	1925	91
45D	17	17	22	03	2605	75
47D	17	20	07	56	1753	23
51D	18	02	01	55	1390	61
52D	18	03	34	14	1527	42
53D1	18	05	04	46	1559	54
53D2	18	05	07	18	1711	209
54D1	18	06	37	20	1713	377
54D2	18	06	45	44	2217	126
55D1	18	08	07	51	1743	190
55D2	18	08	11	48	1980	98
56D1	18	09	31	57	1387	50
56D2	18	09	33	39	1490	51
57D	18	11	13	26	2075	118
58D	18	12	45	00	2169	71

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61D	18	17	23	07	2[redacted]	167
68D	19	03	33	58	1510	121
69D1	19	05	07	04	1697	71
69D2	19	05	09	25	1838	140
70D1	19	06	36	56	1691	44
70D2	19	06	38	44	1799	125
71D	19	08	02	30	1426	174

NOTE: ABOVE DATA APPLIES TO FWD UNIT ONLY. ADD 12 SECONDS TO OBTAIN START TIMES OF AFT UNIT.

8. TIME CORRELATION (MILLISECONDS)

PASS	CLOCK TIME	SYSTEM TIME	DIFFERENCE
9	111283.892	37988.4978	----
16	150828.281	77532.8846	.002
24	192446.610	32751.2107	.003
32	237382.852	77687.4488	.004
41	284316.381	38220.9730	.005
47	318396.203	72300.7910	.004
56	365422.641	32927.2228	.006
63	404866.908	72371.3849	.006
72	451825.234	32929.8022	.008

NOTE: ALL "DIFFERENCE" VALUES ARE PLUS.

GP-1

T O P S E C R E T

-END OF MESSAGE-

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